

FIG. 1

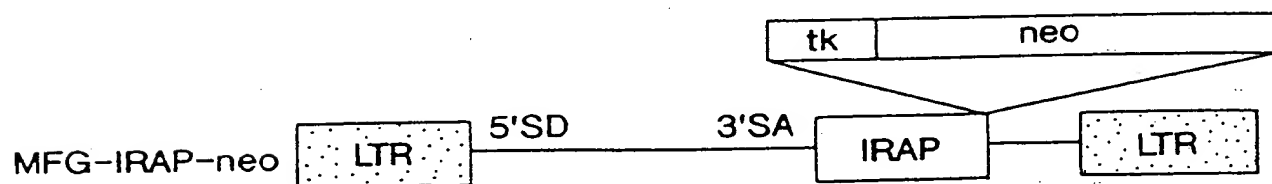


FIG. 2



FIG. 3

3/26

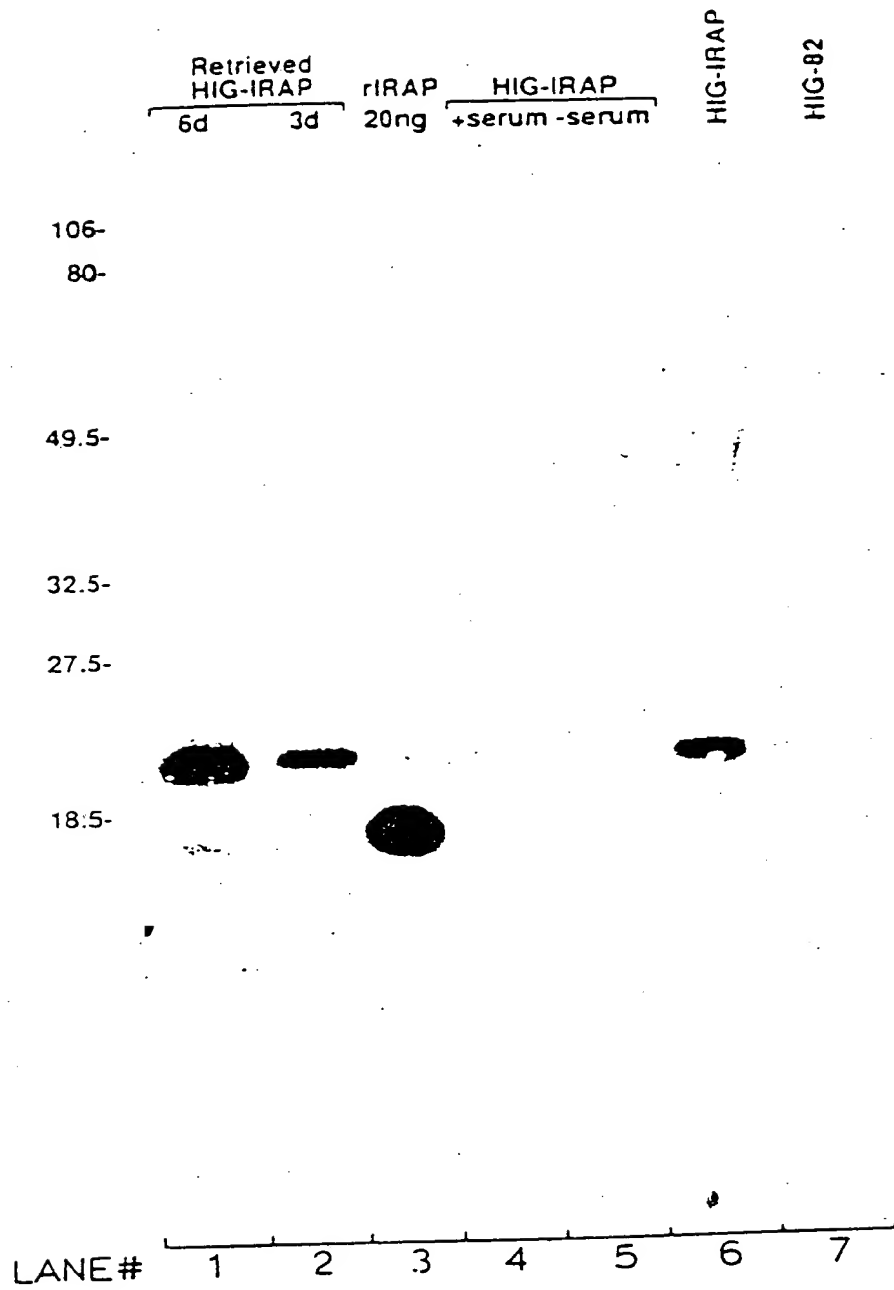


FIG. 4

Units Gelatinase/
 10^6 Chondrocytes

% Inhibition

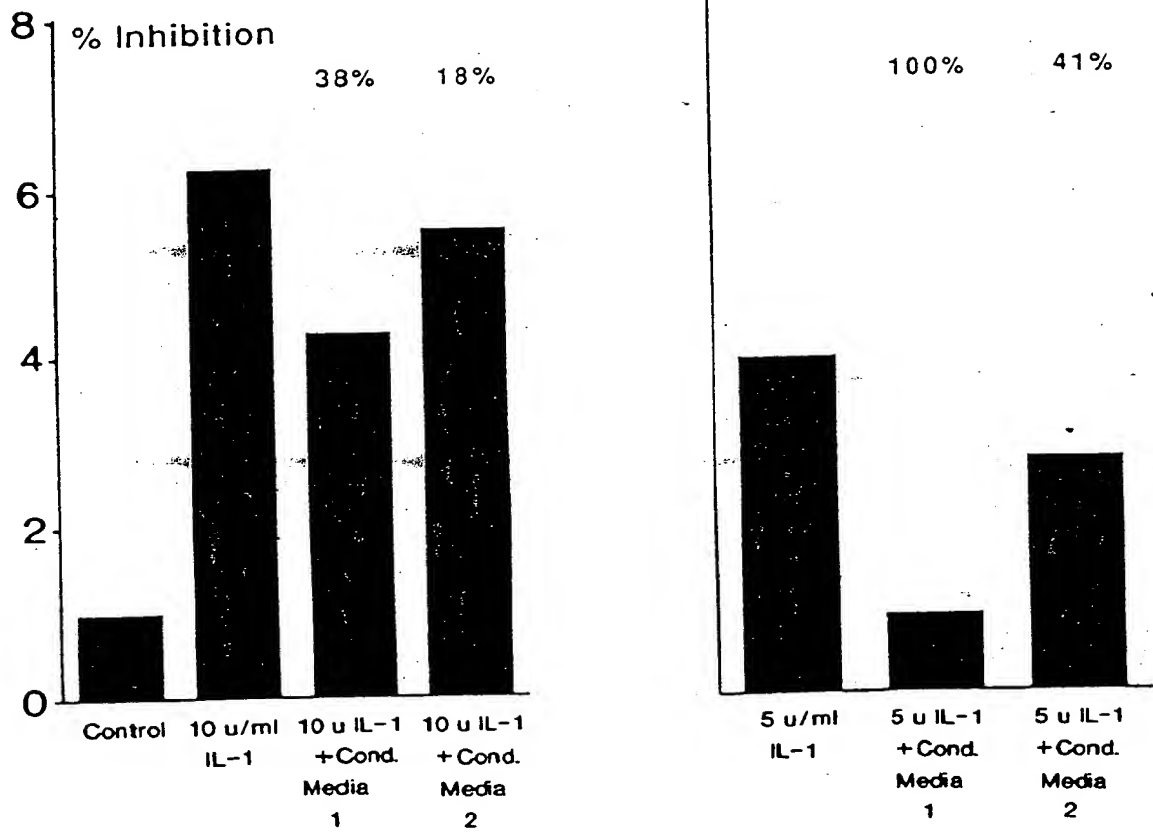


FIG. 5

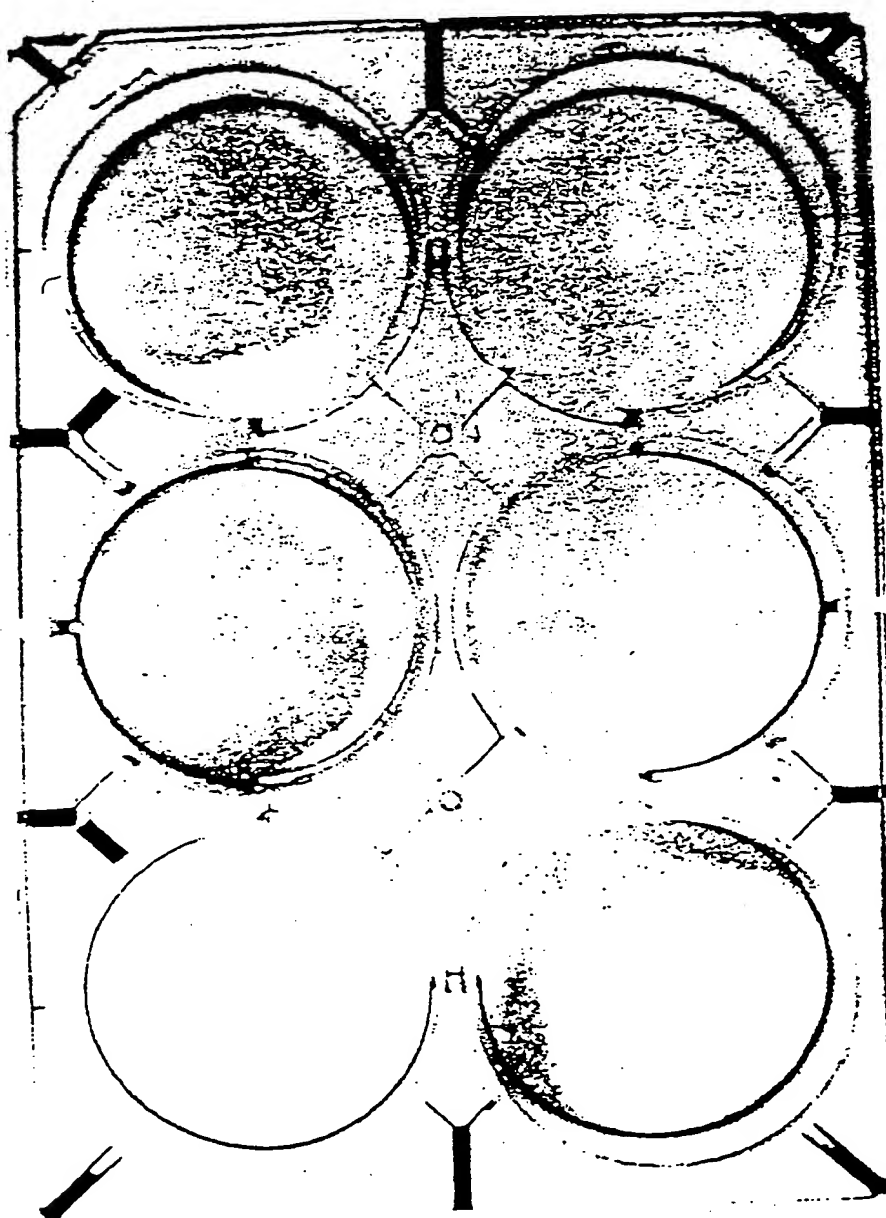


FIG. 6

00734476 120500

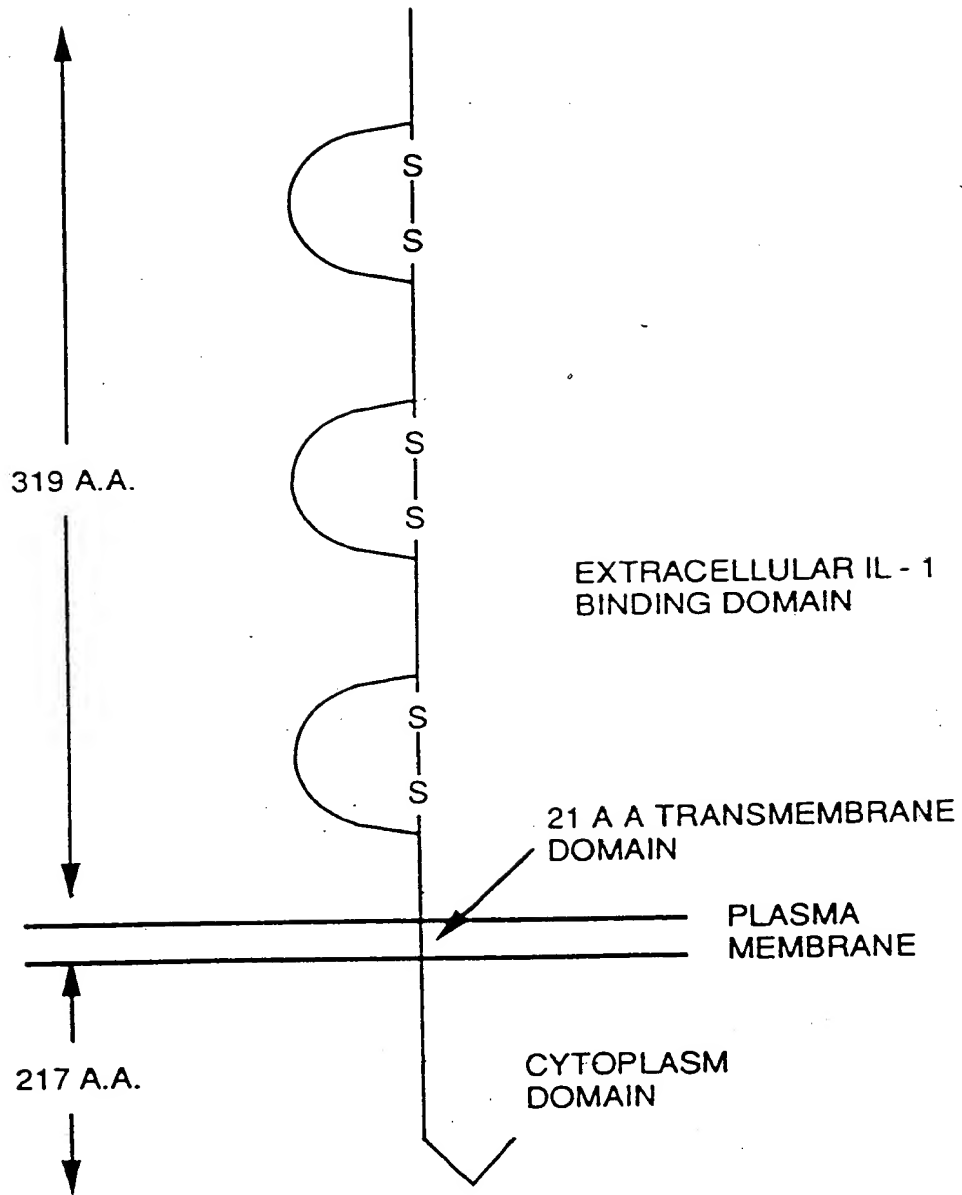


FIG. 7

[illegible]

FIG. 8A

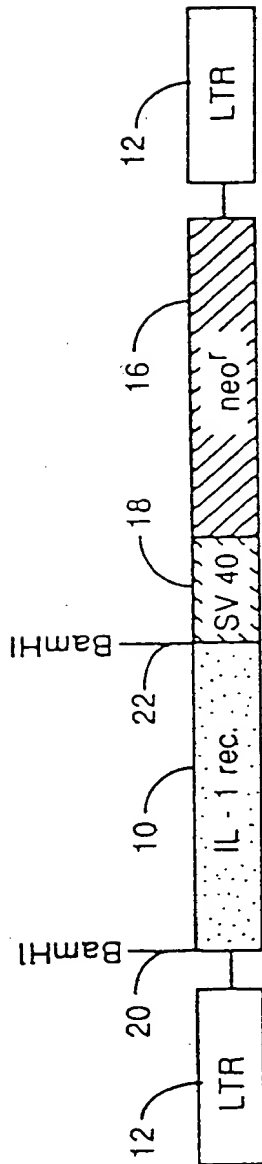
H	val	ile	val	ser	pro	ala	asn	glu	thr	met	glu	val	asp	leu	gly	ser	gln	ile	gln	leu	ile	cys	asn	val	thr	gly	gln	leu	ser	asp	ile	ala	tyr	trp	lys	244		
H	gt	gat	tgt	gag	cc	cag	ct	aat	gac	act	tgg	gat	ccc	aga	tgg	gat	tcc	cag	taca	at	tg	at	g	t	g	at	g	t	g	at	g	at	g	at	g	732		
M	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	735		
M	gt	t	at	ct	gag	ccc	t	cg	gaa	t	gac	g	at	cga	g	at	cga	g	at	cga	g	at	cga	g	at	cga	g	at	cga	g	at	cga	g	at	cga	245		
	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
H	trp	asn	gly	ser	val	ile	asp	glu	asp	pro	val	leu	gly	val	tyr	ser	val	glu	asn	pro	ala	asn	lys	arg	ser	thr	leu	leu	leu	thr	val	leu		273				
H	tgg	aat	ggg	t	ca	g	at	tga	at	gac	cc	cag	tgc	tag	ggg	aag	ac	tat	tac	ag	tgc	g	at	g	at	g	at	g	at	g	at	g	at	g	137			
M	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii				
M	tgg	aat	gg	at	caga	aat	tga	at	gga	at	tgc	at	t	t	g	at	c	at	t	t	g	g	a	a	c	at	c	at	t	t	g	g	a	a	c	140		
M	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	250			
	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
H	asn	ile	ser	glu	ile	g	lu	ser	arg	phe	thr	lys	his	pro	phe	thr	cys	phe	ala	lys	asn	thr	his	gln	ile	asp	ala	ala	tyr	ile	gln	leu	leu	tyr	pro	val	314	
H	aat	at	at	cg	gaa	at	tga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	at	gga	942		
M	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii			
M	aac	att	t	caga	g	at	ttaa	aag	cc	ag	t	t	t	at	c	g	t	at	c	g	t	at	c	g	t	at	c	g	t	at	c	g	t	at	c	g	945	
M	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	315		
	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
H	thr	asn	phe	gln	lys	his	met	ile	gln	val	thr	gln	ile	asn	lys	asn	thr	his	gln	ile	asp	ala	ala	tyr	ile	gln	leu	leu	tyr	pro	val		349					
H	act	aat	ttt	cc	aga	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	1047		
M	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii			
M	cct	g	act	t	ca	aga	at	t	ac	c	t	ca	c	g	g	c	t	ca	c	g	g	c	t	ca	c	g	g	c	t	ca	c	g	g	c	t	1050		
M	pro	asp	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	350		
	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
H	tyr	arg	asp	ser	cys	tyr	asp	phe	leu	pro	ile	lys	ala	ser	asp	gln	lys	thr	tyr	asp	ala	tyr	ile	leu	tyr	pro	lys	thr	val	gln	gln	ser	thr	ser	354			
H	tac	agg	gat	tt	cc	t	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	at	g	1152		
M	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii	ii			
M	tac	agg	gat	cc	t	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	g	ct	1155		
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	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****			
H	asp	cys	asp	ile	phe	val	phe	lys	val	leu	pro	gln	val	leu	gln	lys	gln	cys	gln	tyr	lys	leu	phe	ile	tyr	gln	val	gln	gln	asp	tyr	val	gln	gln	asp	ile	419	
H	gac	t	g	t	g	at	at	ttt	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	1257		
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M	gac	t	t	g	at	act	ttt	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	g	t	1260		
	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	

FIG. 8B

H	ValGluValIleAsnGluAsnValLysLysSerArgArgLeuIleIleLeuValArgGluThrSerGlyPheSerTrpLeuGlyGlySerSerGluGluGln	454
H	GTGAGGTCATTAAATGAAAACGTAAAGAAAGCAGAGACTGATTATCATTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGGTGGTTTCATCTGAAGAGCAA	1362
M	ATCGAGGTTACTAATGAAAATGTAAAGAAAAGCAGGAGGCTGATTATCATTTAGTGAGAGATATGGCAGGCTTCAGCTGGCTGGCCAGTCATCTGAAGAGCAA	1353
M	Ile*****Thr	455
H	IleAlaMetTyrAsnAlaLeuValGlnAspGlyIleLysValValLeuLeuGluLeuLysIleGlnAspTyrGluLysMetProGluSerIleLysPheIle	489
H	ATAGCCATGTATAATGCTCTTGTTCAGGATGGAATTAAGTTGTCCTGCTTGAGCTGGAGAAAATCCCAAGACTATGAGAAAATGCCAGATTCTATTCAATTTCATT	1467
M	ATAGCCATATACAATGCTCTCATCCAGGAAGGAATTAAATCGTCTGCTTGAGTTGGAGAAAATCCCAAGACTATGAGAAAATGCCAGATTCTATTCAATTTCATT	1470
M	Ile*****Ile	490
H	LysGlnLysHisGlyAlaIleArgIrpSerGlyAspPheThrGlnGlyProGlnSerAlaLysThrArgPheTrpLysAsnValArgTyrHisMetProValGln	524
H	AAGCAGAAACATGGGGCTATCCGCTGGTCAGGGGACTTTACACAGGACCCACAGTCTGCAAGAGACAAGTTCTGGAAAGAAATGTCAGGTACACATGCCAGTCCAG	1572
M	AAGCAGAAACACGGAGTCAATTTGCTGGTTCAGGAGACTTTTCAAGAAAGACCCACAGTCTGCAAGAGACCAGGTTCTTGAAAAACTTAAGATACCACATGCCAGCCCAA	1575
M	*****Val*****Cys	525
H	ArgArgSerProSerSerLysHisGlnLeuLeuSer-----ProAlaThrLysGluLysLeuGlnArgGluAlaHisValProLeuGlyEnd	552
H	CGACCGTCACCTTCATCTAAACACCAGTTACTGTC-----ACCAGCCACTAAGGAGAAACTGCAAGAGAGAGGCTCACGTGCTCTCGCGTAGCATGGA	1665
M	CGGAGATCACCATTTGCTAAACACCCGCTTACTAACCCCTGGATCCTGTGCGGGACACATAAGGAGAAACTGCCCGGACGCAACACACTTACCACCTCGGCTAGCATGGC	1680
M	*****Leu*****Arg	557

FIG. 8C

Structure Of The PLJ - ILrec Retroviral Vector
And Partial Restriction Endonuclease Map



LTR - Long Terminal Repeats - Regulates Viral
Transcription And Expression Of IL - 1 Receptor

neo^r - Bacterial Gene Encoding Resistance To The
Antibiotic Neomycin

SV 40 - Simian Virus 40 Enhancer Promoter - Regulates
Expression Of The neo^r Gene

FIG. 9

11/26

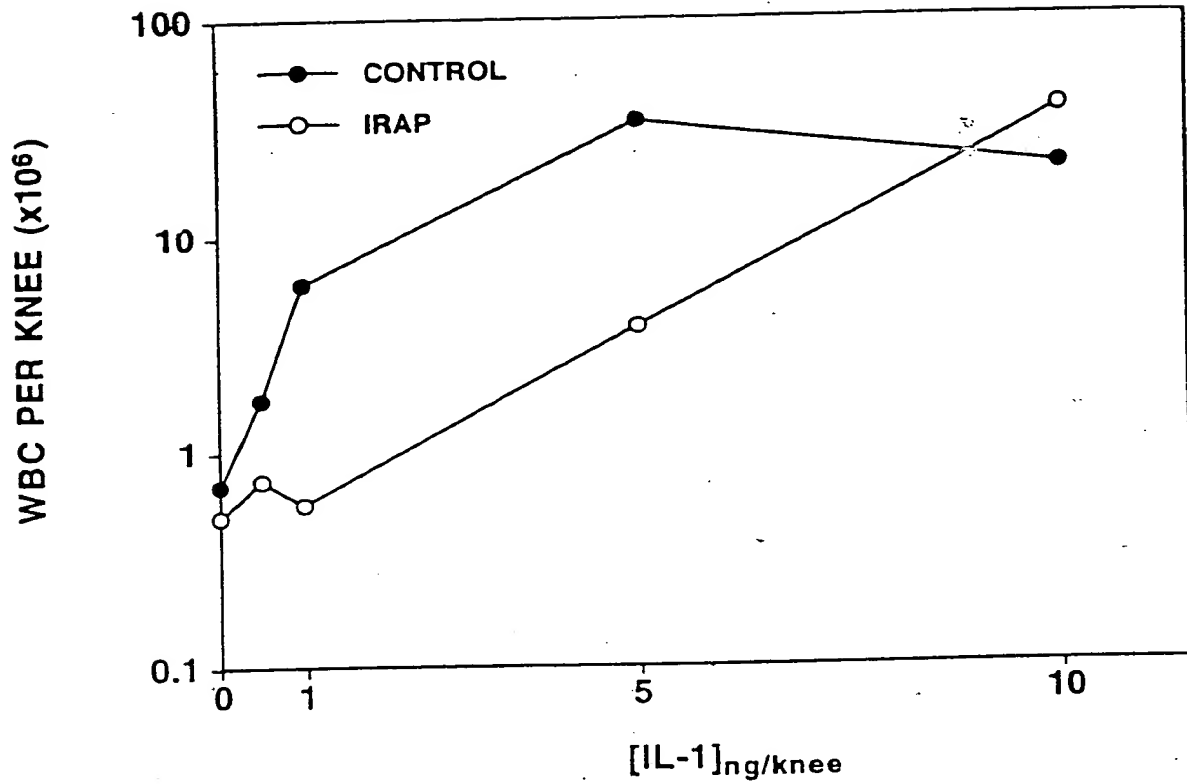


FIG. 10

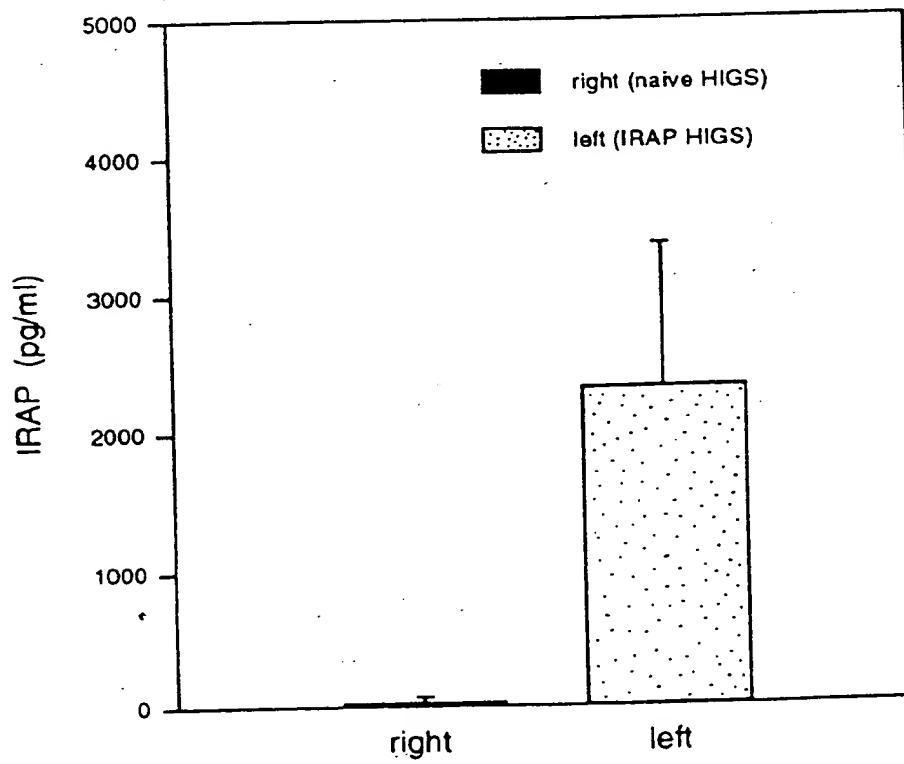


FIG. 11

12/26

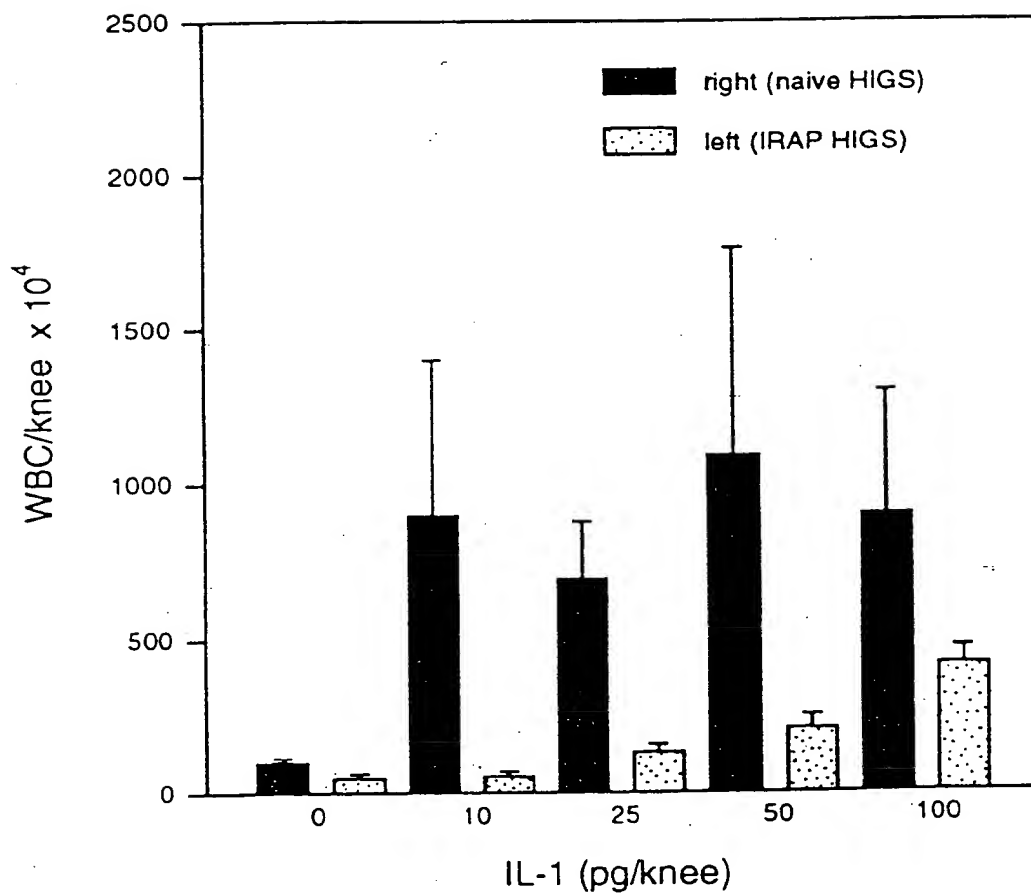


FIG. 12A

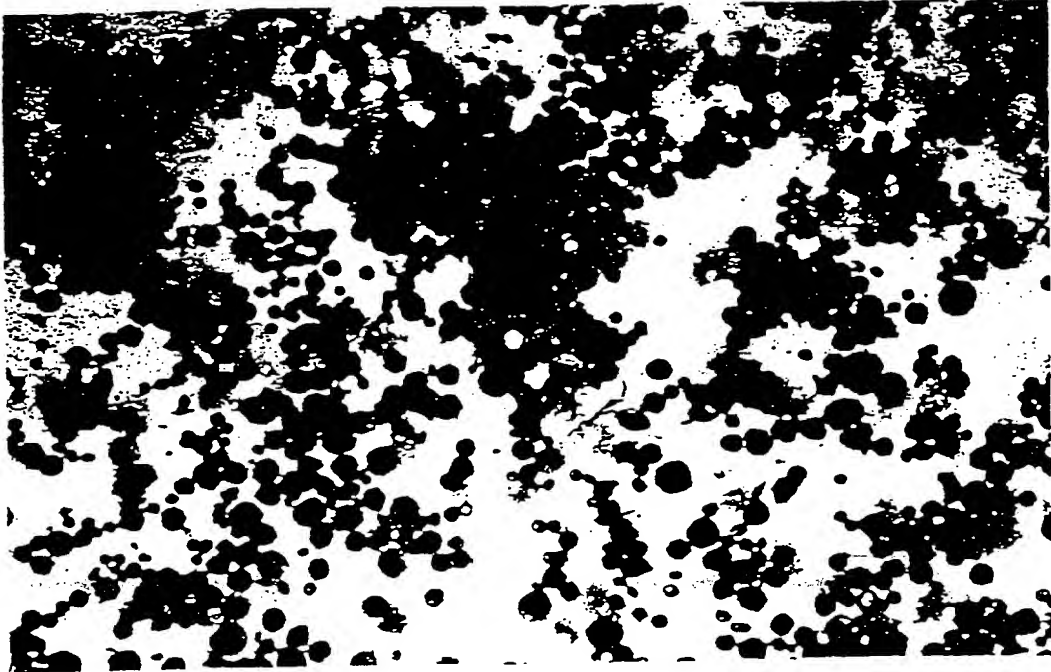


FIG. 12B

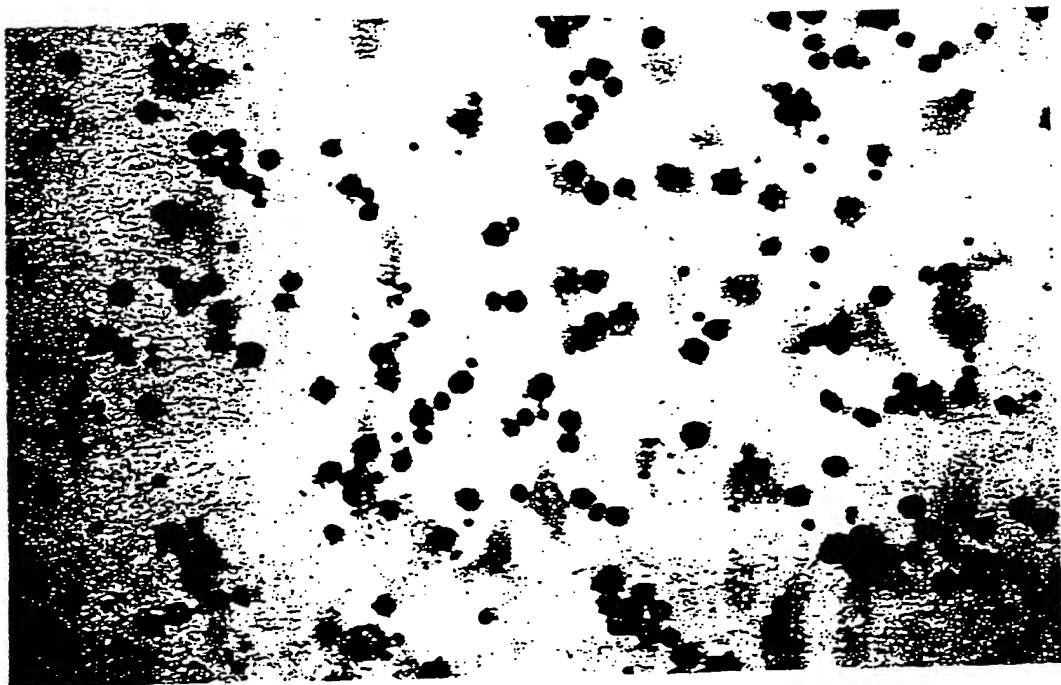


FIG. 12C

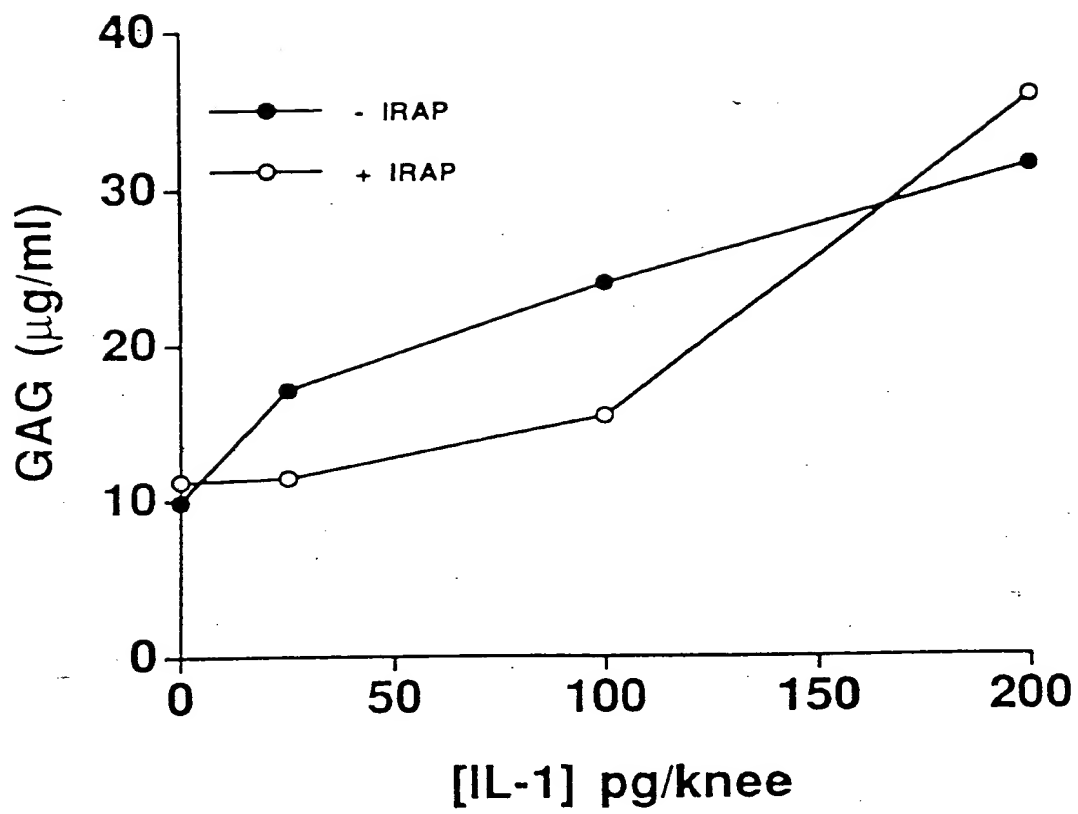


FIG. 13

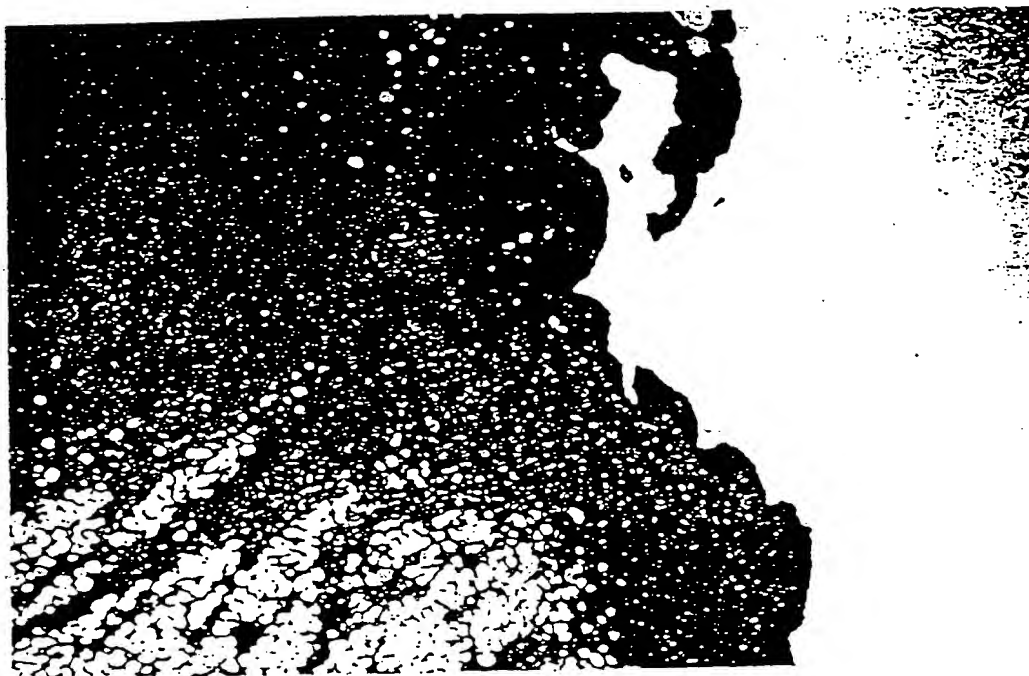


FIG. 14A

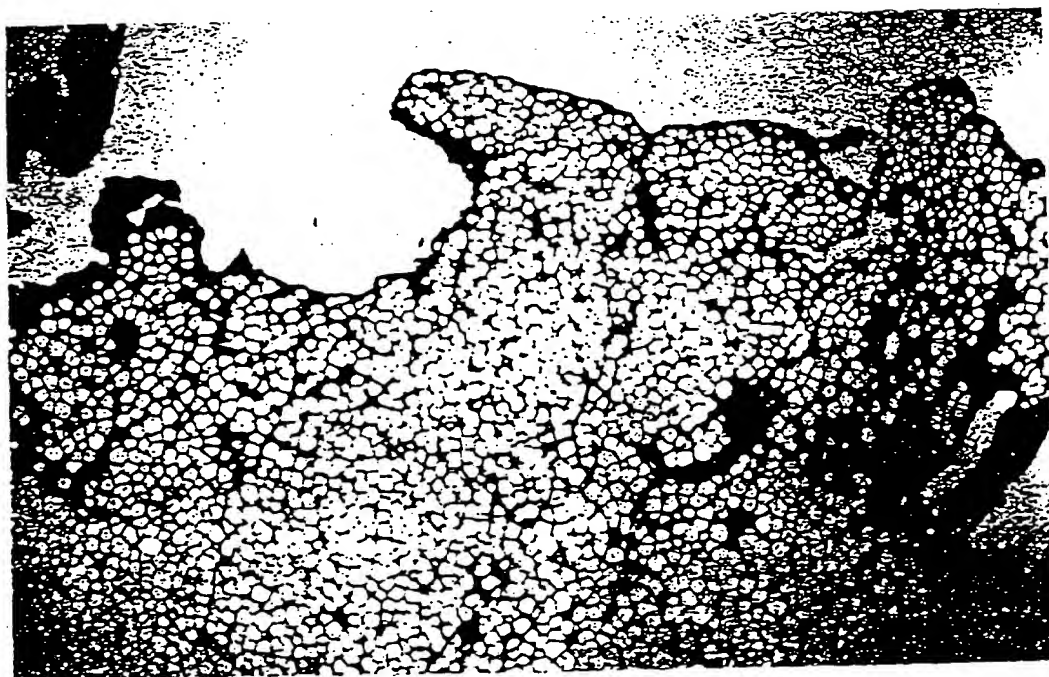


FIG. 14B

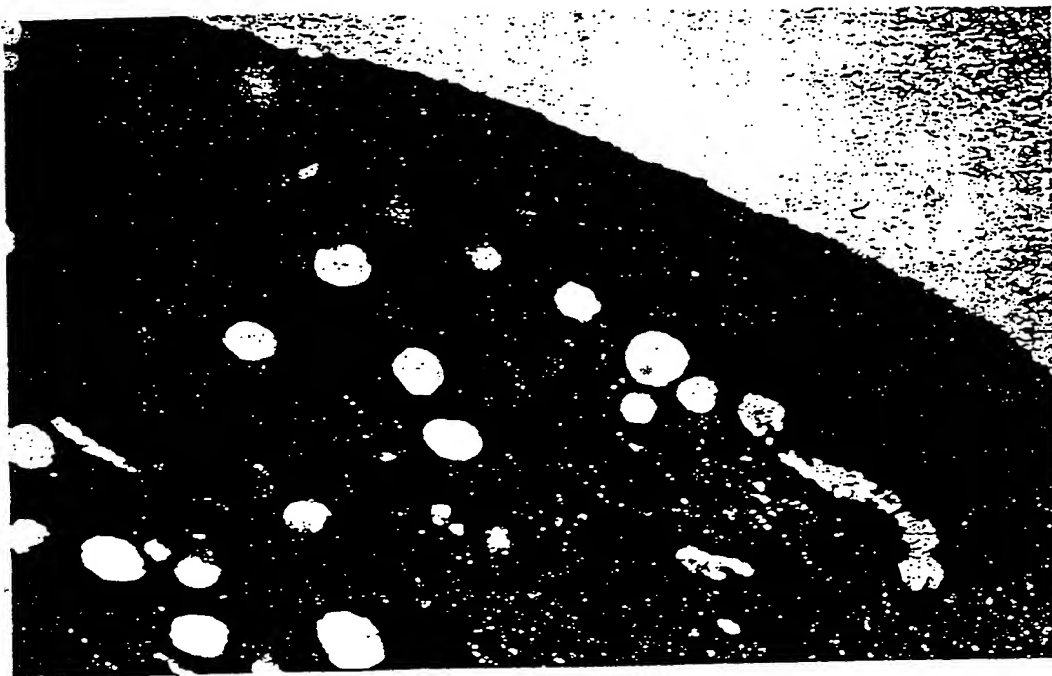


FIG. 14C

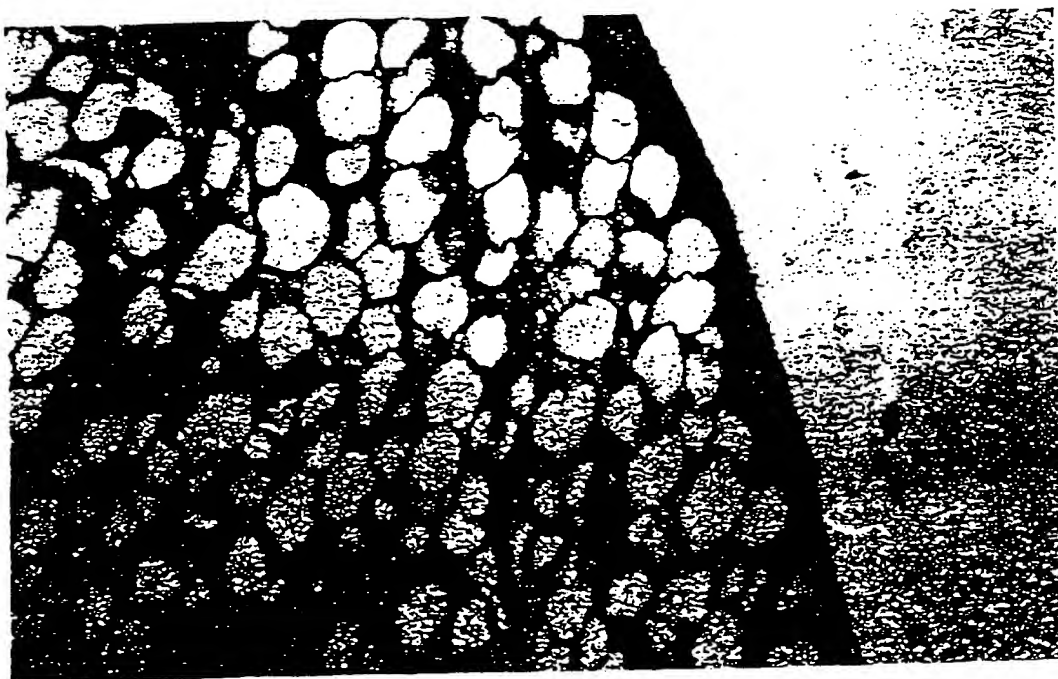


FIG. 14D

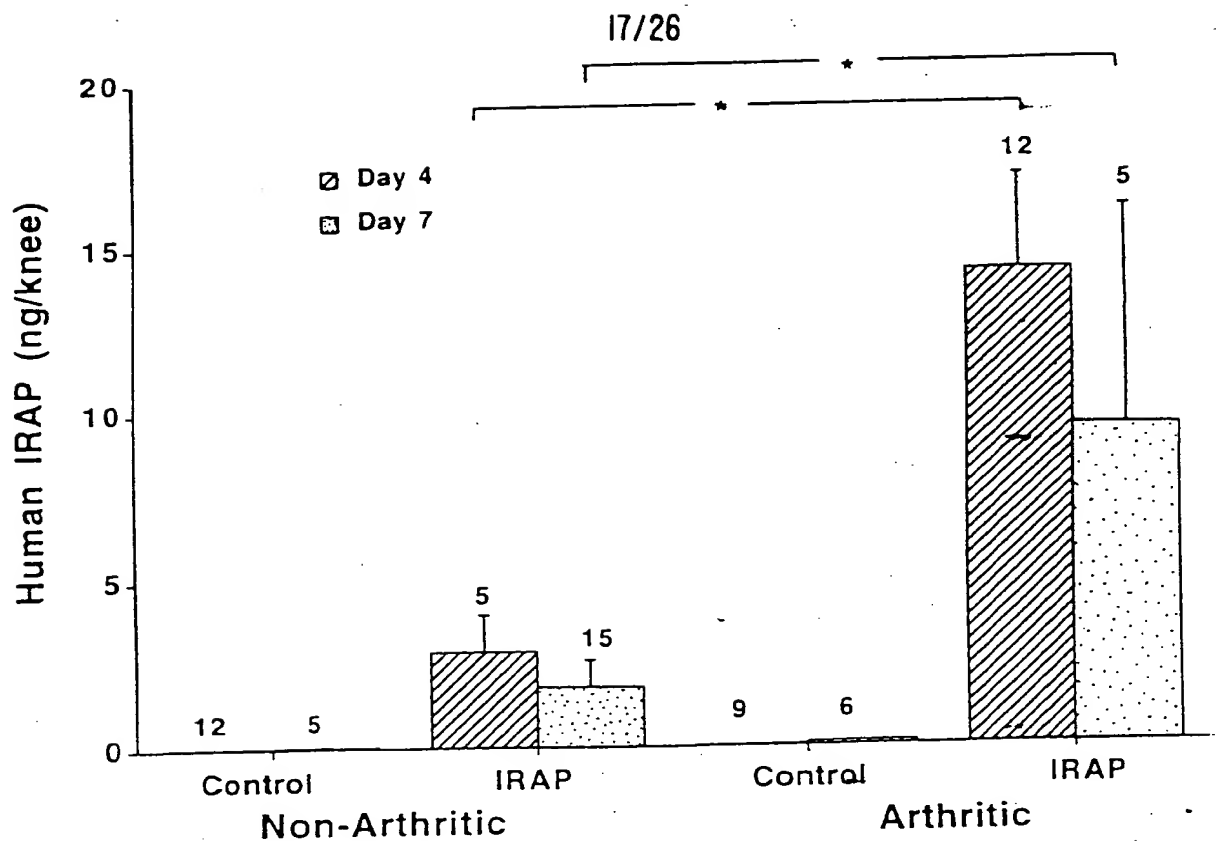


FIG. 15

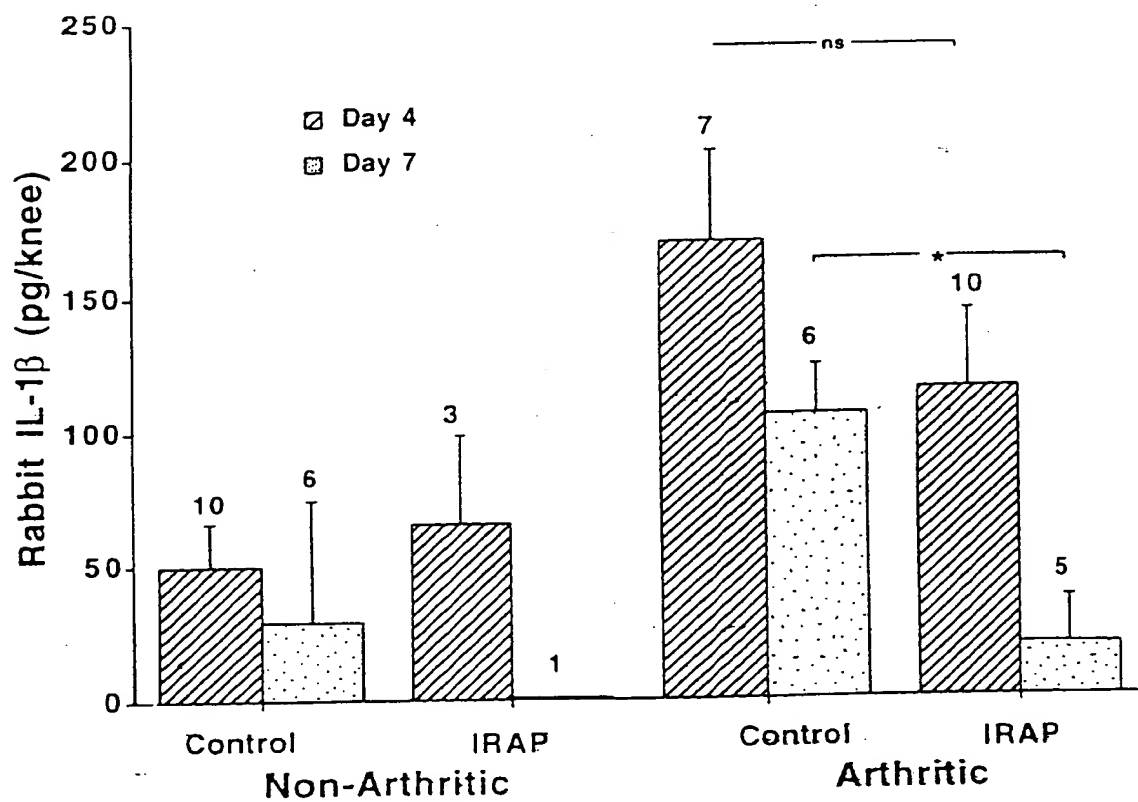


FIG. 16

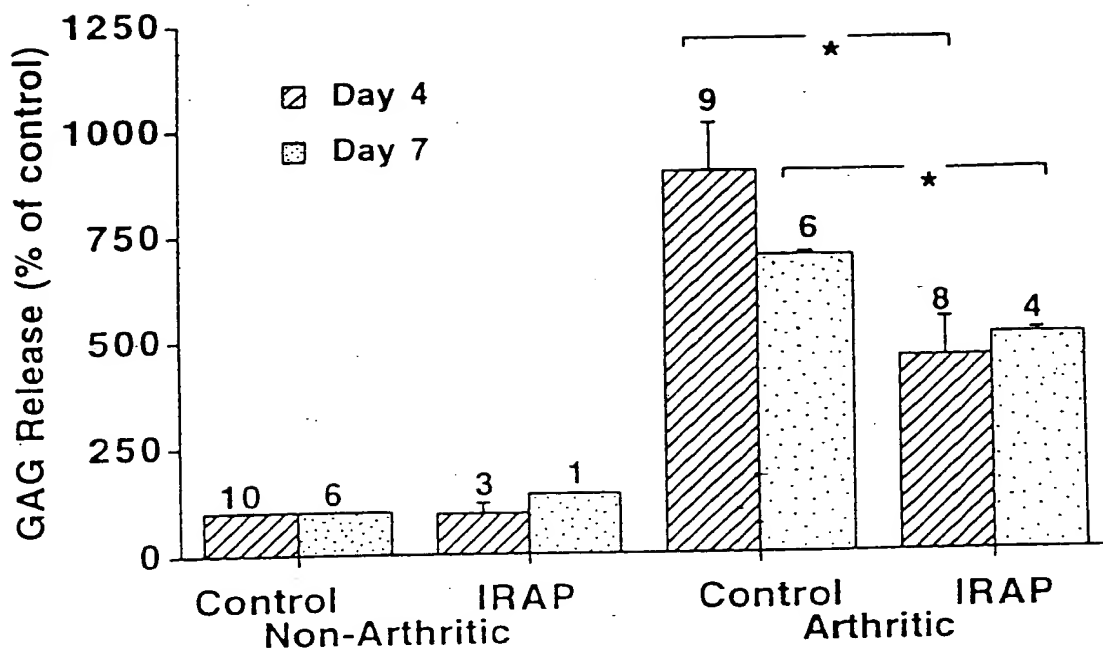


FIG. 17A

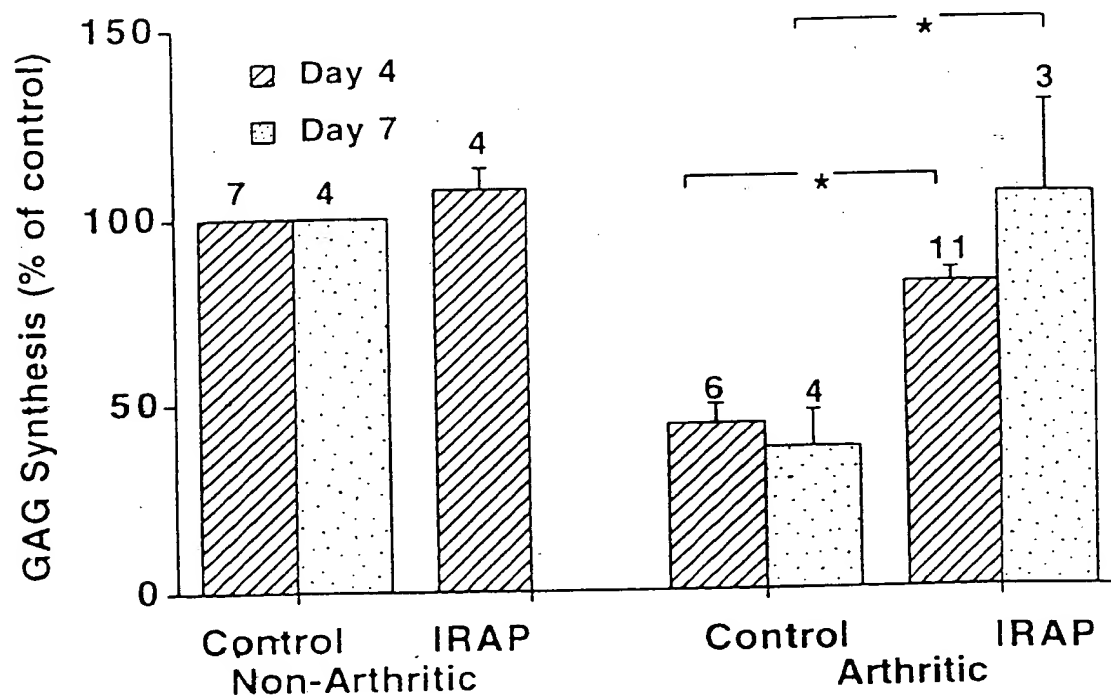


FIG. 17B

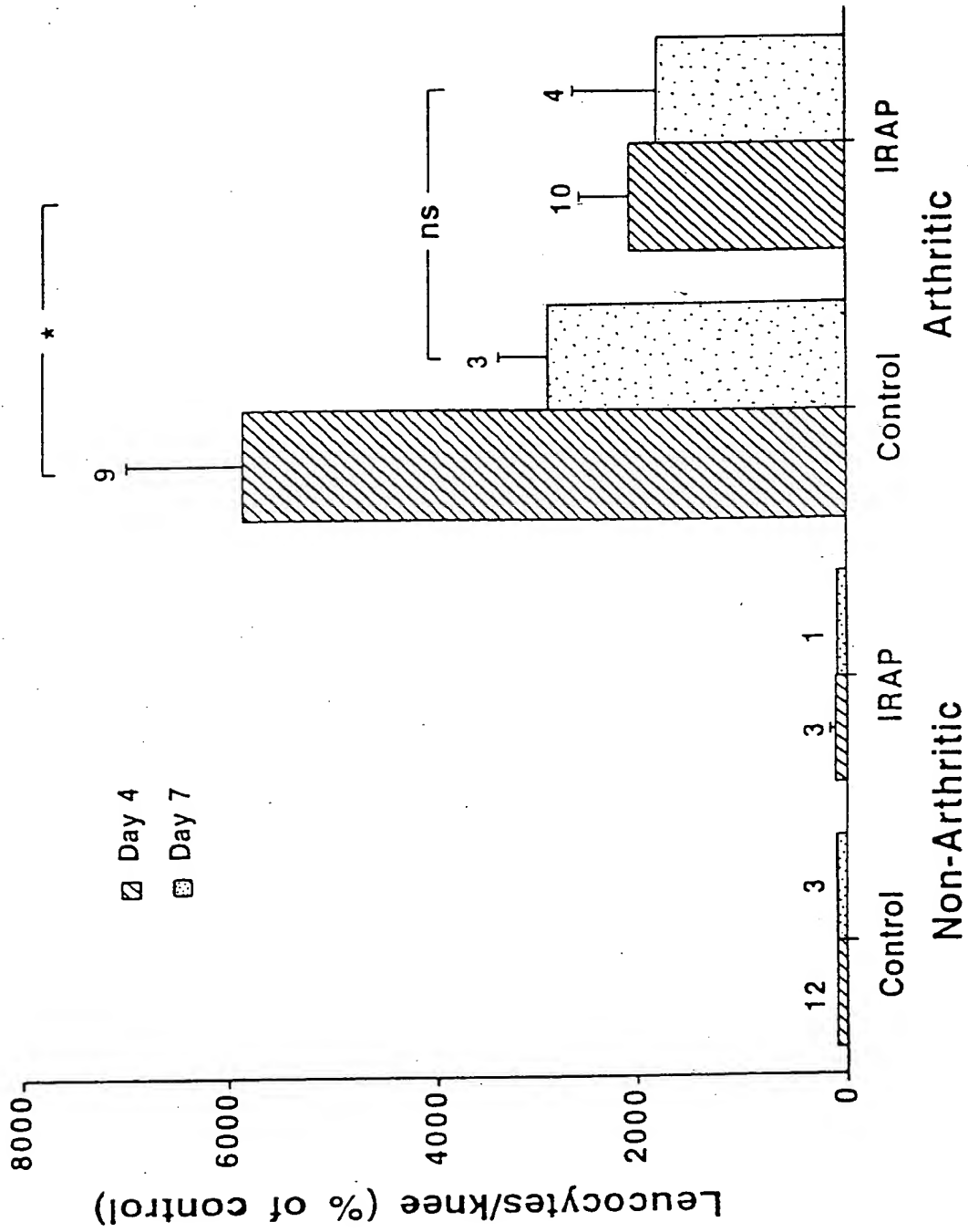


FIG. 18

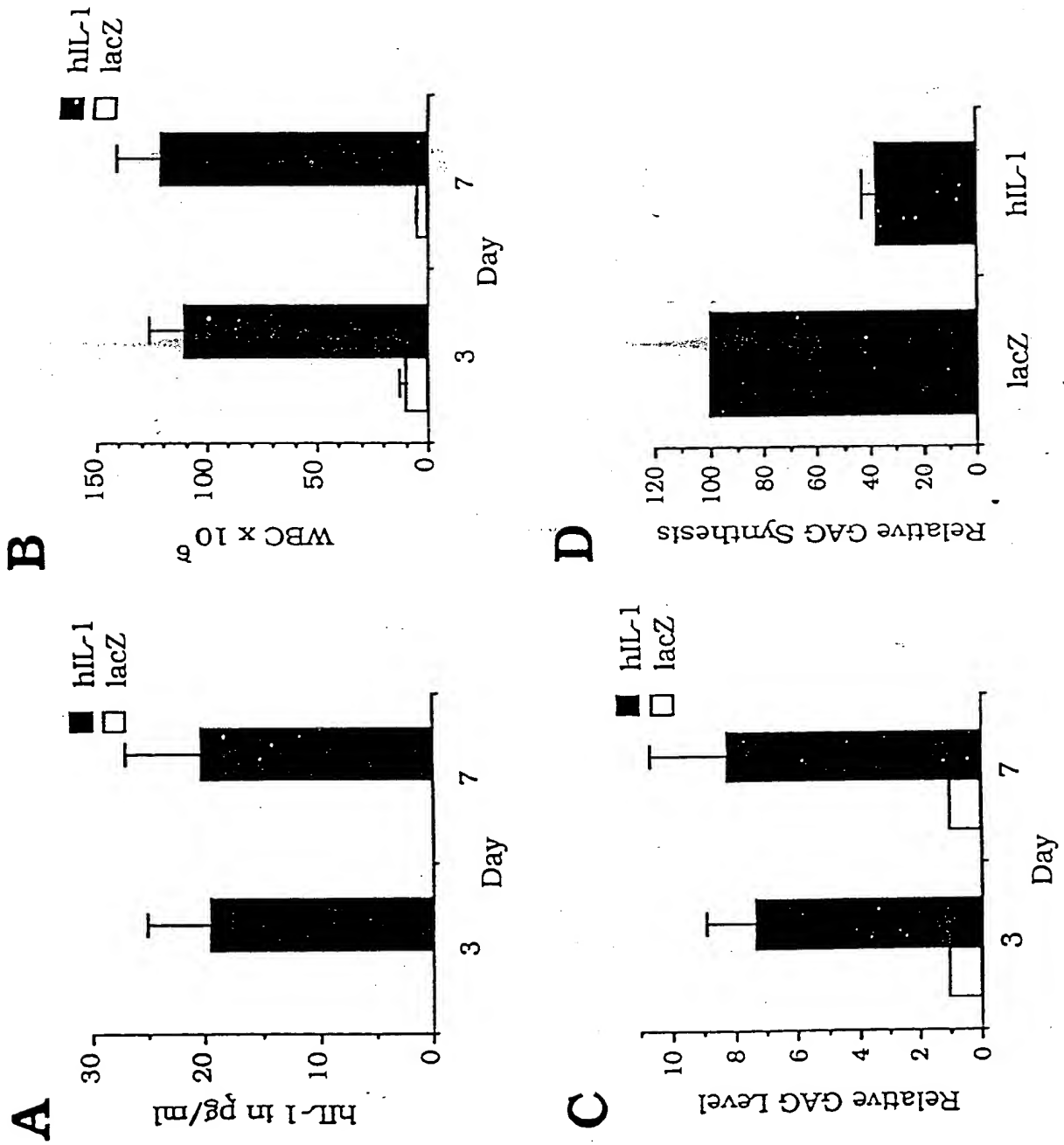


FIG. 19.

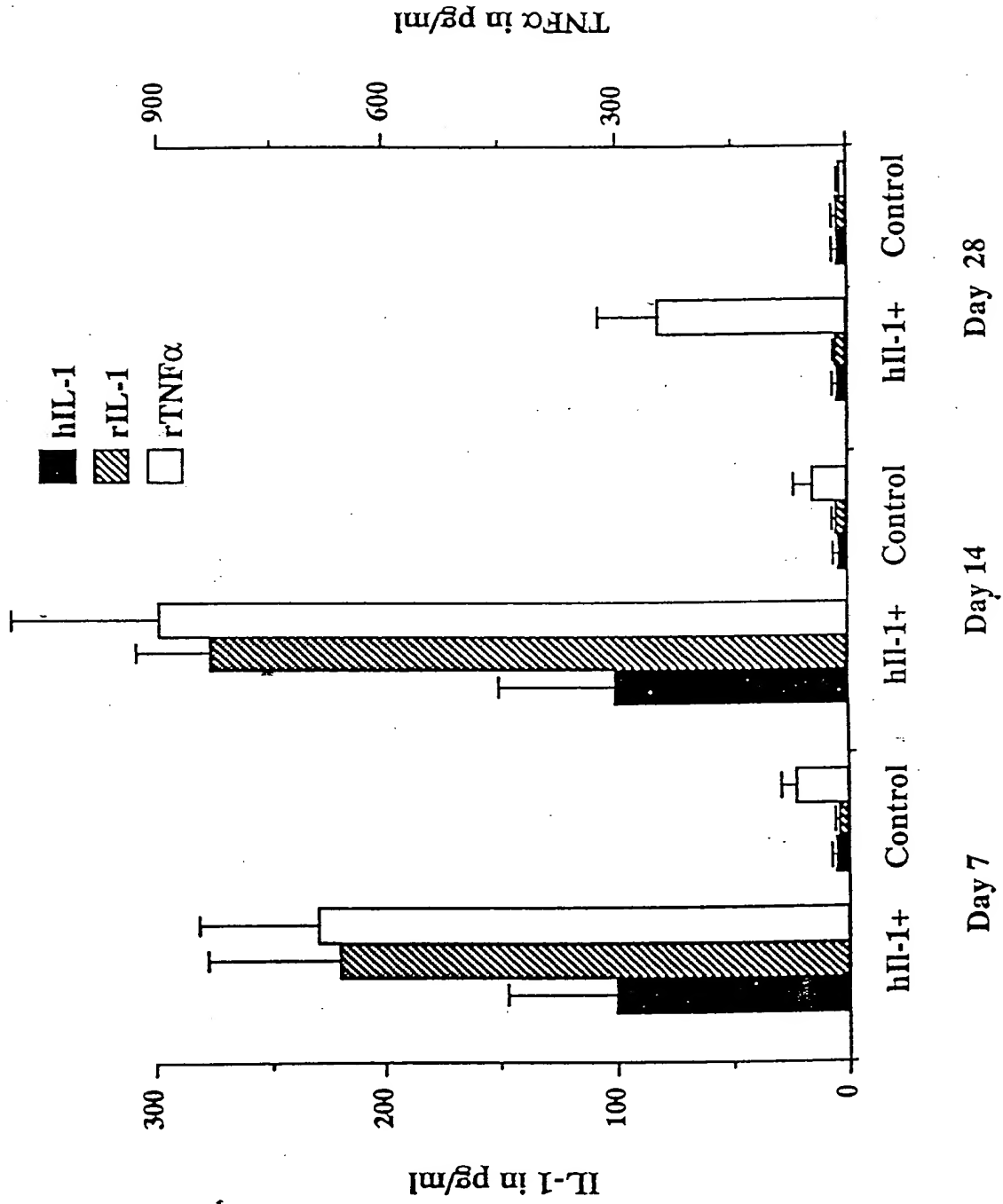


FIG. 20.

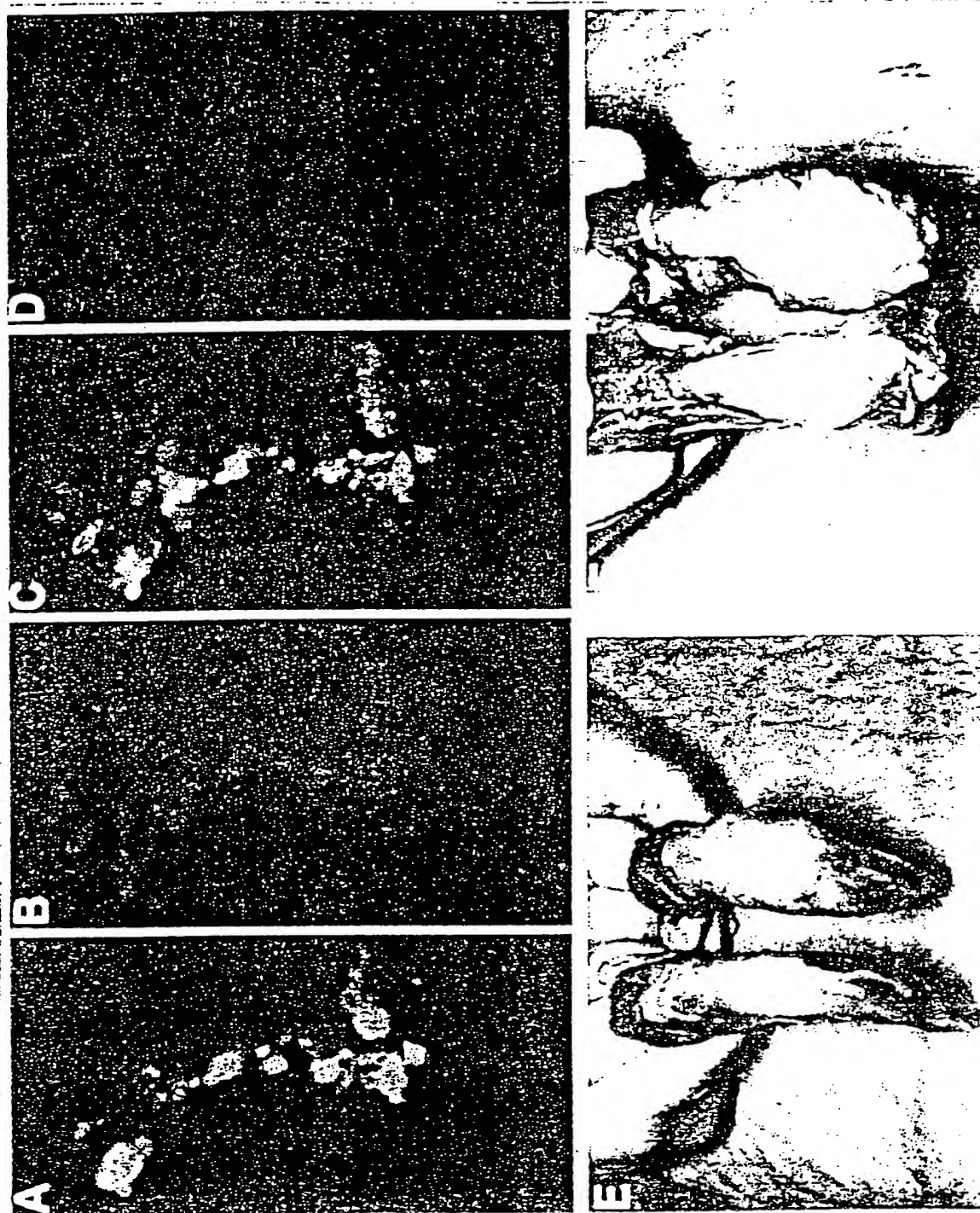


FIG. 21.

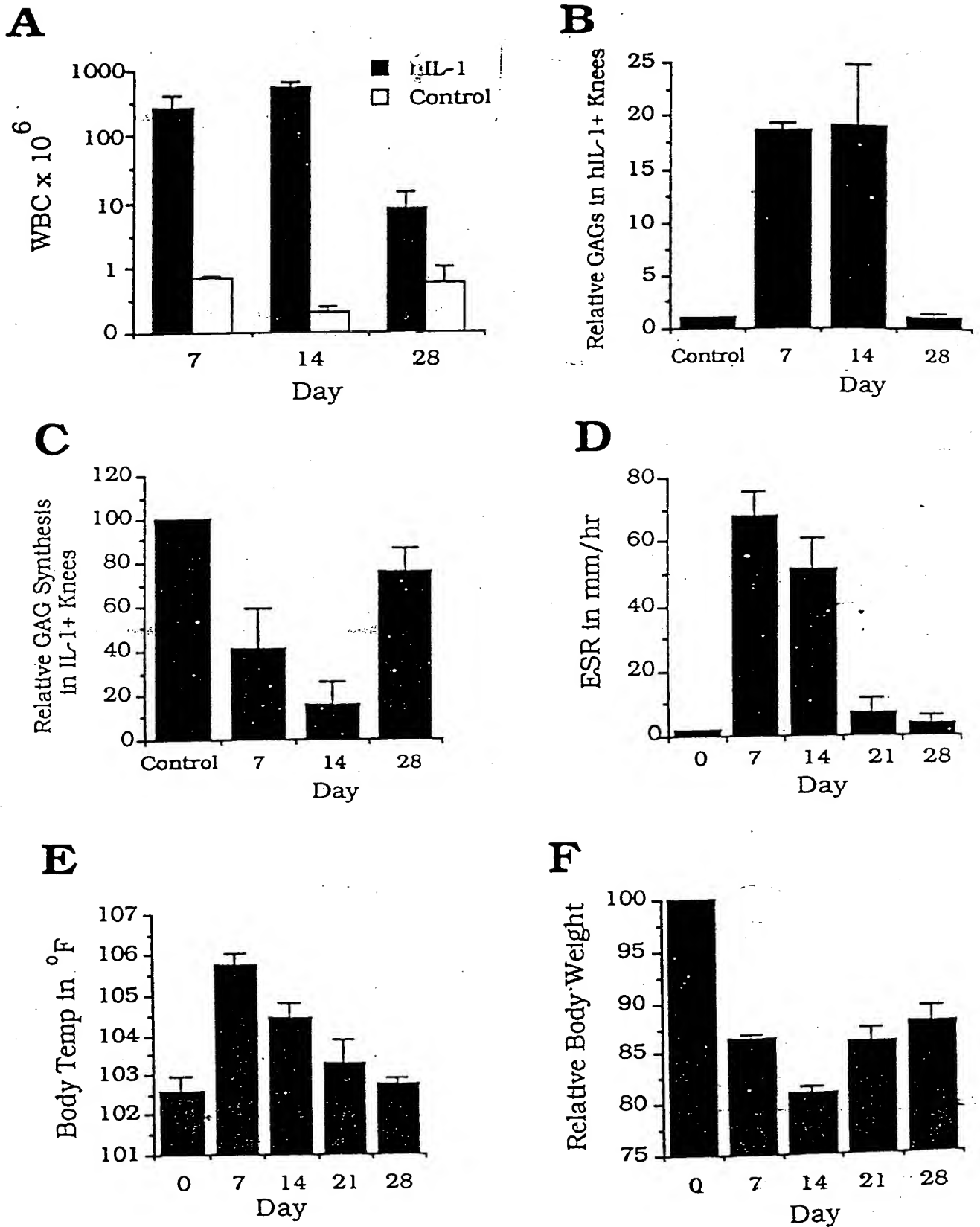


FIG. 22.

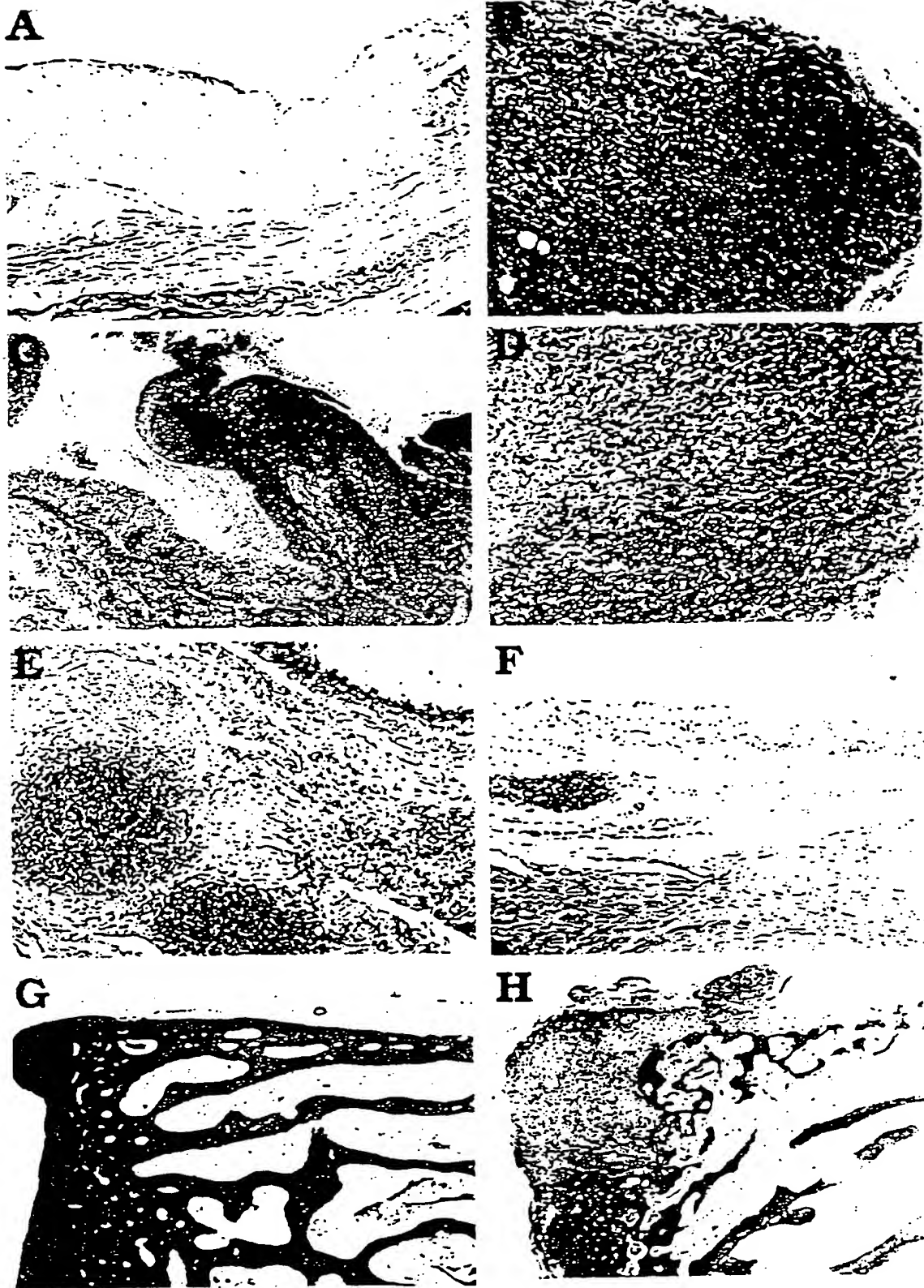


FIG. 23.

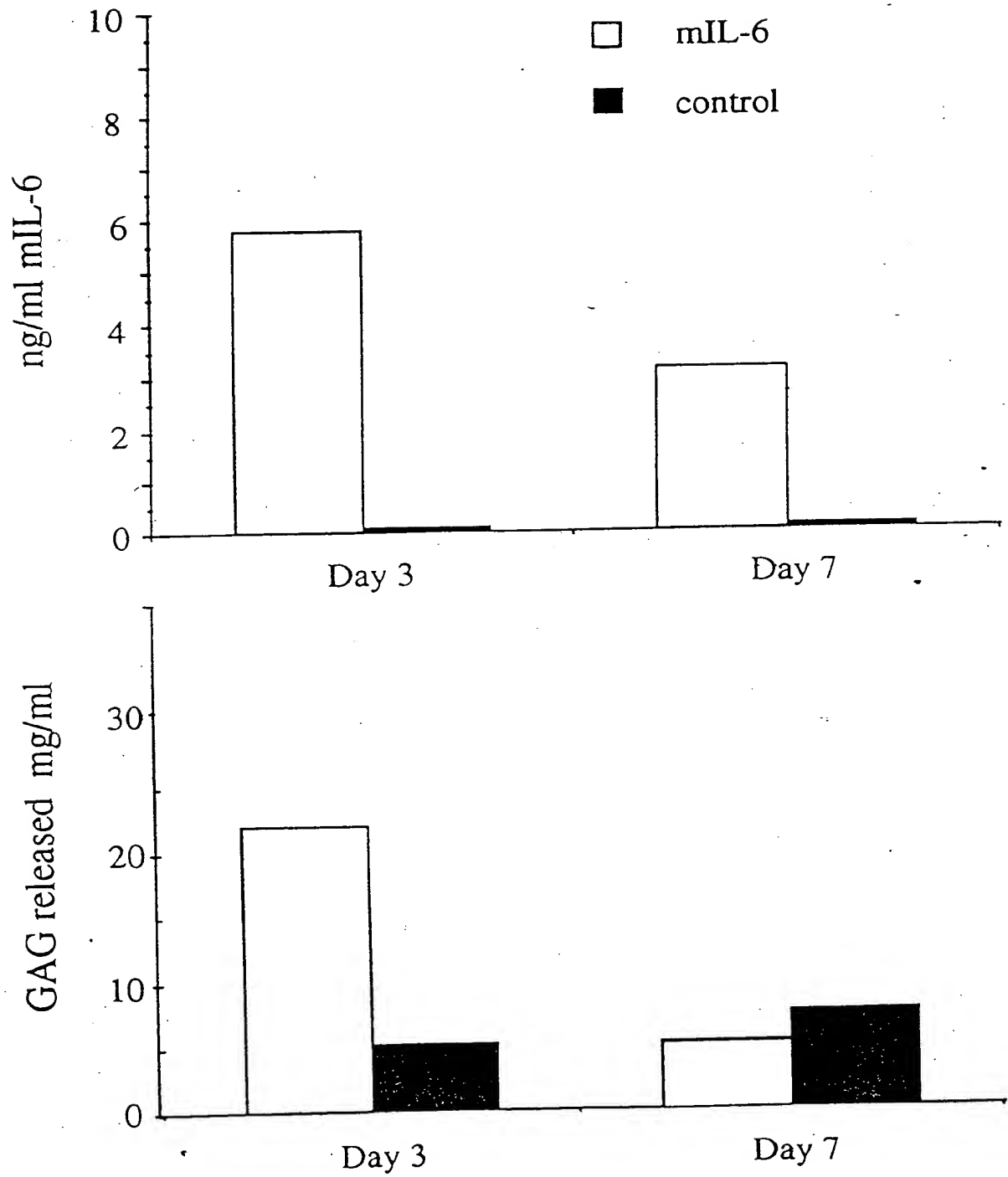


FIG. 24.

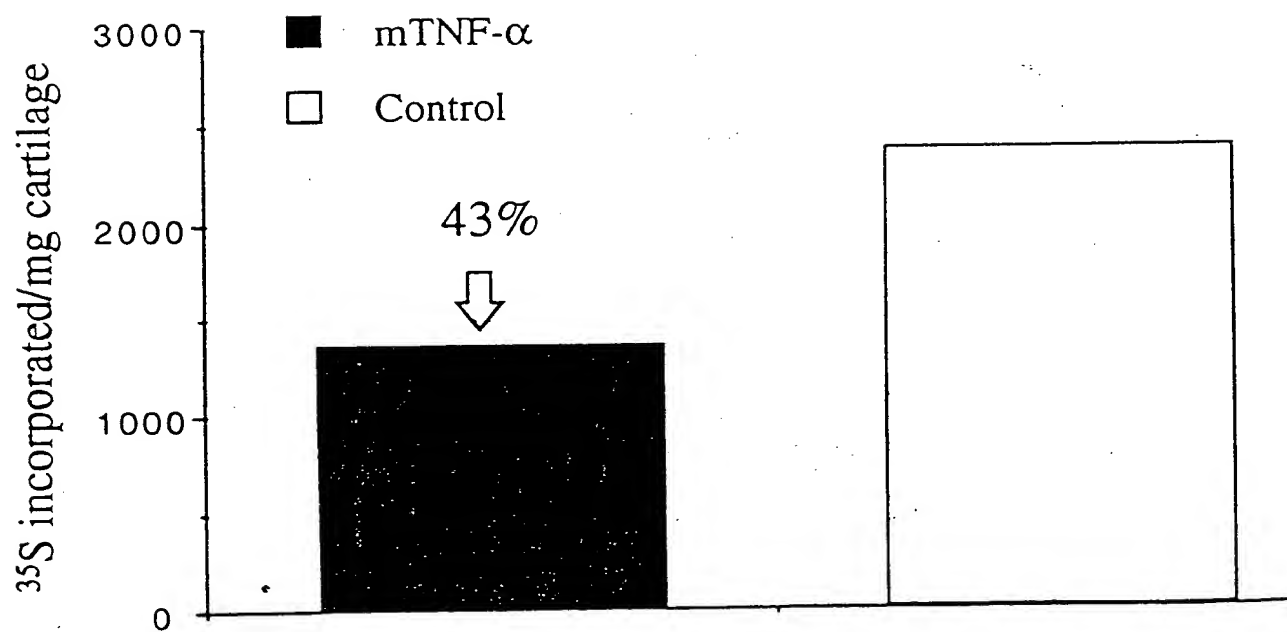
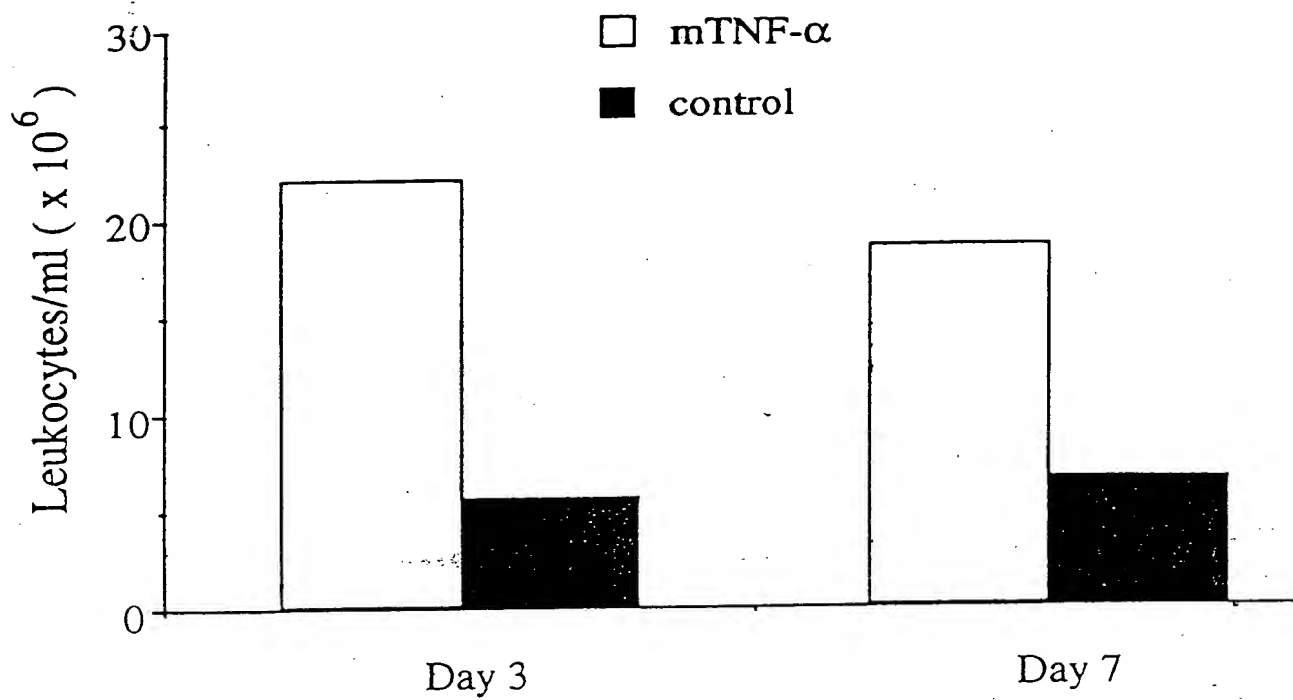


FIG. 25.